Inspired by theater screens. Born from Sony® HD technology.

## POWERFUL PC PERFORMANCE

Intel® Core™ 2 Duo T9400 processor (2.53GHz[1]) with Intel® Centrino® 2 processor technology – the latest chipset from Intel®.

The VAIO® FW notebook comes pre-installed with Genuine Microsoft® Windows Vista® Business with Service Pack 1.

Built-in Wireless-N technology offers a boost in wireless connection speed and range[3].

## INSPIRED BY THEATER SCREENS. BORN FROM SONY® HD TECHNOLOGY.

Fall in love with your favorite movies all over again with an extra-wide, theater inspired 16.4"[6] display (1600x900 resolution) using the energy-efficient XBRITE-ECO™ LCD technology.

The 16:9 aspect ratio ensures that you won't miss an inch of the original picture from your favorite movie while also providing valuable extra workspace. Compare two documents or websites side-by-side without the hassle of having to tab back and forth.

An HDMI™ output delivers video and audio to external sources via a single cable so you can enjoy HD entertainment on your compatible big screen TV without a myriad of extra cables (HDMI™ cable sold separately)[17].

## ENDLESS FEATURES

Store you favorite multimedia, important documents, and cherished family photos on the roomy 320GB[2] Serial ATA hard drive.

The VAIO® FW notebook, designed with dedicated AV Controls, makes navigating through your favorite multimedia quick and easy.

Whether it's for YouTube™ , a class project or for sharing with friends and family, editing digital video captured by your Sony® Handycam® is quick and easy with VAIO® Movie Story software. You choose the supplied template and professional-looking cutaways, cross-fades and soundtrack syncing are automatically done for you.

Stay connected to colleagues, friends and family with real-time video conferencing[4] using the integrated MOTION EYE® camera and microphone.

Broaden you entertainment horizons with the VAIO® FW notebook featuring an extra-wide 16.4"[6] XBRITE-ECO™ LCD display. Great for watching widescreen movies or viewing two websites side-by-side, this entertainment powerhouse is inspired by theater screens, born from Sony® HD expertise and powered by Intel® Centrino® 2 processor technology.

SONY

# VGN-FW190NEH

VAIO® FW Series Notebook PC

## Specifications

### General

Computer Type: Notebook
Type of Use: Portable
Action Buttons: S1, DVD Play, A/V Mode, Volume -/+, Play/Pause/Stop, WLAN/Bluetooth® on/off
Pointing Device: Electro-Static touch pad

### Hardware

Keyboard: QWERTY, 86 keys with 2.0mm stroke and 19.05mm pitch
Camera: Built-in 1.3 megapixel MOTION EYE® camera and microphone

### Processor

Type: Intel® Core™ 2 Duo Processor T9400
Speed: 2.53GHz[1]
Front Side Bus Speed: 1066MHz
L2 Cache: 6MB
Technology: Intel® Centrino® 2 processor technology

### Memory

Type: DDR2 SDRAM
Installed: 3GB PC2-6400 (2GBx1 + 1GBx1)
Maximum: 4GB[15]
Speed: 800MHz

### Hard Drive

Capacity: 320GB[2]
Speed: 5400rpm
Interface: Serial ATA

### Optical Drive #1

DVD+R DL Write: 6x max
DVD+R Write: 8x max
DVD+RW Write: 8x max
DVD-R Write: 8x max
DVD-RW Write: 6x max
CD-R Write: 24x max
CD-RW Write: 24x max
DVD±RW: Yes[5] (DVD±R DL/DVD±RW/RAM)
CD Read: 24x max
DVD Read: 8x max
DVD-RAM Write: 5x max
DVD-R DL Write: 6x max
DVD-RAM Read: 5x max

### Expansion Slots

Multimedia Card Reader: One Memory Stick Duo™ media slot with MagicGate® functionality
One ExpressCard® /34 slot
One Secure Digital (SD™ memory card) media slot

### Audio

Sound System: Dolby Sound Room® Audio

### Display

Screen Size: 16.4"[6]
Resolution: 1600 x 900
XBRITE-ECO™ Technology: Yes

### Graphics

Processor: ATI Mobility Radeon™ HD 3470 with Total Available Graphics Memory of 1530MB[10] (max.)
Chipset: Mobile Intel® PM45 Express Chipset

### Inputs and Outputs

HDMI™ Connection Output(s): 1[17]
Headphone Jack: 1
Modem Jack: 1
Microphone Input: 1
USB Port(s): 3 (2.0 compliant)
VGA Output(s): 1
DC-In: 1
i.LINK® Connection: 1 (4pin) i.LINK® connector (IEEE 1394)[9]
Ethernet Connection (s): 1

### Networking/Modem

Ethernet Protocol: 10Base-T/100Base-TX/1000Base-T
Ethernet Speed: Fast Ethernet (RJ-45)
Modem Type: Integrated V.92/V.90 Modem (RJ-11)
Wireless LAN: Intel® WiFi Link 5100AGN (802.11a/b/g/n)[3]
Bluetooth® Technology: Integrated Stereo A2DP Bluetooth® Technology[16]

### Power

Battery Type: Standard Capacity Lithium-ion Battery (VGP-BPS13/S)
Estimated Battery Life: 1-5.5 hours[11] Standard Capacity Battery
1.5-8 hours[11] Large Capacity Battery
Power Requirements: 110W + 10%

### Software

Operating System: Genuine Microsoft® Windows Vista® Business with SP1
Internet Services: AOL® 90-Day Risk Free Trial - New Users Only
Anti-Virus and Recovery Software: Microsoft® Windows Live™ OneCare™ Trial Version
Supplied Software: Microsoft® Works SE 9.0 w/ 60-Day Trial Version of Microsoft® Office Small Business 2007[14]
Sony® Original Software: Click to Disc™ Editor - DVD Creation
VAIO® Movie Story - Movie Creation
VAIO® MusicBox - Playlist Creation
VAIO® Media plus - Multimedia Server Software
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.
The VAIO® Software Experience: Click to Disc™ Editor - DVD Creation
VAIO® Movie Story - Movie Creation
VAIO® MusicBox - Playlist Creation
VAIO® Media plus - Multimedia Server Software
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.

### Service and Warranty Information

Telephone Support: 1 year toll-free technical telephone assistance, available 24/7[13]
Online and Email Support: Support available from http://www.esupport.sony.com/EN/VAIO
Limited Warranty Term: 1 year limited warranty[12]. See actual warranty for details.

### Environmental Information

RoHS®: Compliant
For more information:
www.sony.com/vaioeco

### Regulation and Standard Compliance

Energy Star® Compliant: 4.0

### Dimensions

Weight: 6.4 lbs[7] (with standard battery)
Measurements: 15.1"(W) x 1.14-1.46"(H) x 10.3"(D)[7,8]

### Supplied Accessories

Standard Lithium-ion battery (VGP-BPS13/S)
AC Adapter
Power Cable

### Optional Accessories

Large Capacity Battery (VGP-BPL13)
Standard Capacity Battery (VGP-BPS13A/B)
AC Adapter (VGP-AC19V25)
Stick AC Adapter (VGP-AC19V21)
USB PortReplicator (VGP-UPR1)
Neoprene Case (VGP-AMC7)
Ladies Leather Tote (VGP-AML4)
Sport Messenger Bag (VGP-AMB10)
Bluetooth Laser Mouse[16] (VGP-BMS33/S)

Color: Titanium Gray
UPC Code: 027242741799

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires 802.11n compatible access point. Some functionality may require Internet services, which may require a fee.
4. Broadband Internet service required along with third party services which may require a subscription or other service fee.
5. DVD Media/Formats are not universally compatible.
6. Viewable area measured diagonally.
7. Non-metric weights and measures are approximate and may vary.
8. Measured at the narrowest point
9. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
10. Total Available Graphics Memory refers to the new Windows Vista classification of graphics memory, which varies depending on the operating condition, version of device driver and system memory size.
11. Actual battery life may vary based on product settings, usage patterns and environmental conditions. Battery life will be shorter with models equipped with Instant Mode features.
12. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.sony.com/pcsupport, call toll-free 888-476-6972 (888-4SONYPC) or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
13. For certain third party software applications, Sony provides first level phone support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the aplicable software vendor.
14. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you dont activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instgructions presented during setup and paying the required fees.
15. A portion of the system memory over 3GB may not be available to the operating system.
16. Interoperability and compatibility among Bluetooth® devices varies.
17. Requires high definition-capable display with HDMI™ connector. Image quality will vary.

Computer Interface: For this product there are a multitude of varying software packages and add-on hardware options. This product is not manufactured to work with any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned here. Sony hereby disclaims any representations or warranties that this product is compatible with any combination of non-Sony products you may choose to connect to it. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony computer are subject to change without notice. Preinstalled software may not be identical to retail versions or have all documentation. Features and specifications are subject to change without notice. This product meets the standards of the International Energy Star Program for energy efficiency.
Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).
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